

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Withdrawn) A method for regenerating *Acacia mangium* comprising:
 - a) inducing callus formation from an explant;
 - b) culturing said callus to produce adventitious buds;
 - c) culturing said adventitious buds to elongate and produce pinnate leaves;and
 - d) culturing elongated buds of step (c) such that they produce roots and become plantlets.
2. (Withdrawn) The method of claim 1 wherein seeds are cultured to produce said explant.
3. (Withdrawn) The method of claim 1 wherein said explant is selected from the group consisting of hypocotyls, cotyledons, leaves, petioles and stems.
4. (Withdrawn) The method of claim 1 wherein said explant is cultured on a medium comprising MS medium supplemented with an auxin and a cytokinin.
5. (Withdrawn) The method of claim 4 wherein said auxin is present at 0.5-2.0 mg/L and said cytokinin is present at 0.5-3.0 mg/L.
6. (Withdrawn) The method of claim 4 wherein said auxin is selected from the

group consisting of 2,4-D and α -naphthaleneacetic acid and wherein said cytokinin is selected from the group consisting of kinetin and 6-benzylaminopurine.

7. (Withdrawn) The method of claim 1 wherein said callus is cultured on a medium comprising MS basic medium supplemented with a) thidiazuron, b) indole acetic acid, c) casein enzymatic hydrolysate, d) L-ascorbic acid, e) L-glutamine, f) L-asparagine, g) L-proline, h) sucrose and i) agar or phytigel.
8. (Withdrawn) The method of claim 1 wherein said adventitious buds are cultured on a medium comprising MS medium supplemented with a) thidiazuron, b) casein enzymatic hydrolysate, c) L-ascorbic acid, d) L-glutamine, e) L-asparagine, f) L-proline, g) sucrose and h) agar or phytigel.
9. (Withdrawn) The method of claim 1 wherein said elongated buds are cultured on a medium comprising 1/2 MS basic medium supplemented with a) α -naphthaleneacetic acid, b) kinetin, c) casein enzymatic hydrolysate, d) L-ascorbic acid, e) L-glutamine, f) L-asparagine, g) L-proline, h) sucrose and i) phytigel.
10. (Withdrawn) The method of claim 1 wherein said explant has been transformed.
11. (Withdrawn) A method for regenerating *Acacia mangium* comprising:
a) culturing auxiliary buds from an *Acacia mangium* tree to produce adventitious buds comprising phyllodes;
b) subculturing said adventitious buds comprising phyllodes to produce adventitious shoots;

c) culturing said adventitious shoots.

12. (Withdrawn) The method of claim 11 wherein said culturing of auxiliary buds is performed on a medium comprising MS basic medium supplemented with a) α -naphthaleneacetic acid, b) 6-benzylaminopurine, c) casein enzymatic hydrolysate, d) L-ascorbic acid, e) L-proline, f) L-asparagine, g) L-glutamine, h) sucrose, and i) phytagel or agar.
13. (Withdrawn) The method of claim 11 wherein said subculturing of adventitious buds comprising phyllodes is performed on a medium comprising MS basic medium supplemented with a) 6-benzylaminopurine, b) casein enzymatic hydrolysate, c) L-ascorbic acid, d) L-glutamine, e) L-asparagine, f) L-proline, g) sucrose and h) phytagel or agar.
14. (Currently Amended.) A method of transforming *Acacia mangium* with a gene of interest comprising the steps of:
 - a) activating *Agrobacterium tumefaciens* comprising said gene of interest by culturing said *Agrobacterium* in induction medium comprising acetosyringone;
 - b) preculturing an explant of *Acacia mangium* selected from the group comprising a stem, a leaflet, a petiole and a bud in medium comprising supplemented basic MS medium, wherein said explant is soaked in 0.5 M mannitol prior to the co-cultivation;
 - c) co-cultivating said activated *Agrobacterium tumefaciens* and said precultured explant in medium comprising supplemented basic MS medium to produce infected explants;
 - d) culturing said infected explants in medium comprising supplemented basic MS to induce callus and adventitious buds; and

e) culturing said callus or adventitious buds on a selective medium comprising supplemented basic MS medium;

wherein in said supplemented basic MS medium comprises a) thidiazuron, b) indole-3-acetic acid, c) casein enzymatic hydrolysate, d) L-ascorbic acid, e) L-glutamine, f) L-asparagine, g) L-proline, h) sucrose and l) phytagel or agar.

15. (Canceled.)

16. (Canceled.)

17. (Canceled.)

18. (Original.) The method of claim 14 wherein said co-cultivating is performed in the dark.

19. (Canceled.)

20. (Original.) The method of claim 14 wherein said preculture is performed using a photoperiod of 16 hours light/8 hours dark.

21. (Original.) The method of claim 14 wherein said culturing on selective medium is performed using a photoperiod of 16 hours light/8 hours dark.

22. (Canceled.)

23. (Original.) A method for promoting elongation of transformed adventitious buds of *Acacia mangium* comprising transforming an *Acacia mangium* explant

by the method of claim 14 and further comprising a step of addition of gibberellic acid to the culture medium following formation of adventitious buds.

24. (Original.) A method for promoting pinnate leaf formation on transformed adventitious buds of *Acacia mangium* comprising transforming an *Acacia mangium* explant by the method of claim 14 and further comprising culturing adventitious buds which develop on a medium with gibberellic acid.
25. (Withdrawn) A method for promoting root formation from transformed adventitious buds comprising culturing transformed adventitious buds on a medium comprising 1/2 MS basic medium supplemented with a) α -naphthaleneacetic acid, b) kinetin, c) casein enzymatic hydrolysate, d) L-ascorbic acid, e) L-glutamine, f) L-asparagine, g) L-proline, h) sucrose and i) phytigel.
26. (Withdrawn) The method of claim 25 wherein said culturing is performed using a 16 hour light/8 hour dark photoperiod.
27. (Withdrawn) The method of claim 25 wherein said culturing is performed at 28°C.
28. (Currently Amended.) A method of preparing transgenic *Acacia mangium* cells comprising the steps of
 - a) preculturing stem pieces of *Acacia mangium* in a culture medium comprising supplemented basic MS medium, wherein said stem pieces are soaked in 0.5M mannitol prior to co-cultivating with *Agrobacterium tumefaciens*; and
 - b) co-cultivating said stem pieces of step (a) with ~~activated~~ *Agrobacterium tumefaciens* in culture medium AM-265, wherein said *Agrobacterium* was activated

by culturing the *Agrobacterium* in induction medium comprising acetosyringone prior to said co-cultivation.

29. (Original.) The method of claim 28 wherein said preculturing is performed for 3 days using a photoperiod of 16/8 hours (light/dark).
30. (Original.) The method of claim 29 wherein said preculturing is performed using 1800-2000 lux for the light cycles.
31. (Original.) The method of claim 28 wherein said preculturing is performed at 28°C.
32. (Canceled.)
33. (Canceled.)
34. (Currently Amended.) The method of claim 28 wherein said *Agrobacterium tumefaciens* was activated by growing the *Agrobacterium* in induction medium; at 28°C in the dark.
35. (Canceled.)
36. (Canceled.)
37. (Withdrawn) A method of making transgenic *Acacia mangium* plants comprising;
 - a) preparing transgenic *Acacia mangium* cells by the method of claim 28;
 - b) culturing said cells in a selective medium,

- c) adding a growth promoter; and
- d) rooting buds which develop.

- 38. (Withdrawn) The method of claim 37 wherein said selective medium comprises an antibiotic.
- 39. (Withdrawn) The method of claim 37 wherein said culturing is performed for more than 1 month.
- 40. (Withdrawn) The method of claim 37 wherein said growth promoter is gibberellic acid.
- 41. (Withdrawn) A transgenic *Acacia mangium* cell.
- 42. (Withdrawn) A transgenic *Acacia mangium* plant.